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PAGE: 1

RAW SEQUENCE LISTING PATENT APPLICATION US/09/836,169

DATE: 11/20/2001 TIME: 19:31:11

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This Raw Listing contains the General Information Section and up to the first 5 pages.

| 1 | SEQUENCE LISTING |
|----------------------------|---|
| 2 | (1) General Information: |
| 4 5 6 7 8 9 | (i) APPLICANT: Choulika, Andre Perrin, Arnaud Dujon, Bernard Nicolas, Jean-Francois |
| 10 11 12 | (ii) TITLE OF INVENTION: Nucleotide Sequence Encoding the Enzyme I-SCEI and the Uses Thereof |
| 13 14 | (iii) NUMBER OF SEQUENCES: 52 |
| 15 16 17 | <pre>(iv) CORRESPONDENCE ADDRESS: (A) ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &</pre> |
| 18 19 | (B) STREET: 1300 I Street, N.W. (C) CITY: Washington |
| 20 21 2 2 | (C) CITY: Washington (D) STATE: D.C. (E) COUNTRY: USA (F) ZIP: 20005-3315 |
| 23 24 25 26 | (v) COMPUTER READABLE FORM:(A) MEDIUM TYPE: Floppy disk(B) COMPUTER: IBM PC compatible |
| 27 28 29 | (C) OPERATING SYSTEM: PC-DOS/MS-DOS (D) SOFTWARE: PatentIn Release #1.0, Version #1.25 |
| 30 31 32 33 | <pre>(vi) CURRENT APPLICATION DATA:</pre> |
| 34 35 36 37 38 | (vii) PRIOR APPLICATION DATA:(A) APPLICATION NUMBER: 08/417,226(B) FILING DATE: 05-APR-1995(C) CLASSIFICATION: |
| 39 40 41 42 43 | <pre>(viii) PRIOR APPLICATION DATA: (A) APPLICATION NUMBER: US 07/971,160 (B) FILING DATE: 05-NOV-1992</pre> |
| 44 45 46 | (ix) PRIOR APPLICATION DATA:(A) APPLICATION NUMBER: US 07/879,689(B) FILING DATE: 05-MAY-1992 |





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| 4 / | | |
|----------------------|--|-------|
| 48 | (x) ATTORNEY/AGENT INFORMATION: | |
| 49 | (A) NAME: Potter, Jane E.R. | |
| 50 | (B) REGISTRATION NUMBER: 33,332 | |
| 51 | (C) REFERENCE/DOCKET NUMBER: 03495-0111-04000 | |
| 52 | | |
| 53 | (xi) TELECOMMUNICATION INFORMATION: | |
| 54 | (A) TELEPHONE: 202-408-4000 | |
| 55 | (B) TELEFAX: 202-408-4400 | |
| 56 | | |
| 57 | (2) INFORMATION FOR SEQ ID NO:1: | |
| 58 | | |
| 59 | (i) SEQUENCE CHARACTERISTICS: | |
| 60 | (A) LENGTH: 714 base pairs | |
| 61 | (B) TYPE: nucleic acid | |
| 62 | (C) STRANDEDNESS: single | |
| 63 | (D) TOPOLOGY: linear | |
| 64 | (=, =================================== | |
| 65 | (ii) MOLECULE TYPE: DNA (genomic) | |
| 66 | - | |
| 67 | 1 | |
| 68 | (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1: | |
| 69 | | |
| 70 | ATGCATATGA AAAACATCAA AAAAAACCAG GTAATGAACC TCGGTCCGAA CTCTAAACTG | 60 |
| 71 | | |
| 72 | CTGAAAGAAT ACAAATCCCA GCTGATCGAA CTGAACATCG AACAGTTCGA AGCAGGTATC | 120 |
| 73 | · · | 120 |
| 74 | GGTCTGATCC TGGGTGATGC TTACATCCGT TCTCGTGATG AAGGTAAAAC CTACTGTATG | 180 |
| 75 | dotelomed loodonide limenteed letestome madelmana cinetamine | 100 |
| 76 | CAGTTCGAGT GGAAAAACAA AGCATACATG GACCACGTAT GTCTGCTGTA CGATCAGTGG | 240 |
| 77 | | 2.0 |
| 78 | GTACTGTCCC CGCCGCACAA AAAAGAACGT GTTAACCACC TGGGTAACCT GGTAATCACC | 300 |
| 79 | directored december regulated directored reconstruction | 300 |
| 80 | TGGGGCGCCC AGACTTTCAA ACACCAAGCT TTCAACAAAC TGGCTAACCT GTTCATCGTT | 360 |
| 81 | 100000000 1000011001 1000001001 11001001 | 500 |
| 82 | AACAACAAAA AAACCATCCC GAACAACCTG GTTGAAAACT ACCTGACCCC GATGTCTCTG | 420 |
| 83 | PROPRIORE PROCESSES CONTINUES CONTIN | 120 |
| 84 | GCATACTGGT TCATGGATGA TGGTGGTAAA TGGGATTACA ACAAAAACTC TACCAACAAA | 480 |
| 85 | COMMODICAL TOTAL TOTAL TOTAL MORE MORE MANAGED THE COMMONE | 100 |
| 86 | TCGATCGTAC TGAACACCCA GTCTTTCACT TTCGAAGAAG TAGAATACCT GGTTAAGGGT | 540 |
| 87 | TOMICOTAL TOMICACCA CICITIONCI IICULICILIO IICULICICO COTTILICOO | 310 |
| 88 | CTGCGTAACA AATTCCAACT GAACTGTTAC GTAAAAATCA ACAAAAACAA ACCGATCATC | 600 |
| 89 | CIGCOTAGE ANTICOACT GARCIGITAC GRAMMATCA ACADAMACAA ACCONTENTO | 000 |
| 90 | TACATCGATT CTATGTCTTA CCTGATCTTC TACAACCTGA TCAAACCGTA CCTGATCCCG | 660 |
| 91 | TACATOGATI CIRIGICITA COTGATOTIC TACAACCIGA TCAAACCGTA COTGATOCCG | 000 |
| 92 | CAGATGATGT ACAAACTGCC GAACACTATC TCCTCCGAAA CTTTCCTGAA ATAA | 714 |
| 93 | THE THE TOTAL TELEVISION OF THE TELEVISION OF THE TOTAL TELEVISION OF THE TELEVISION OF THE TOTAL TELE | / _ ¬ |
| 94 | (2) INFORMATION FOR SEQ ID NO:2: | |
| 9 4 95 | (2) INFORMATION FOR DEG ID NO.2. | |
| 95 96 | (i) SEQUENCE CHARACTERISTICS: | |
| 97 | (A) LENGTH: 237 amino acids | |
| 98 | (B) TYPE: amino acid | |
| 99 | (D) TOPOLOGY: linear | |
| | \D/ 1010H0G1. 11HCG1 | |

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| 101 | | (ii) | MOLI | ECULI | E TY | PE:] | pept: | ide | | | | | | | | | |
| 102 | | | | | | | | | | | | | | | | | |
| 103 | | | | | | | | | | | | | | | | | |
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| 105 | | | | | | | | | | | | | | | | | |
| 106 | | | | | | | | | | | | | | | | | |
| 107 | | (xi |) SE | QUEN | CE D | ESCR: | IPTI | ON: S | SEQ : | ID N | 0:2: | | | | | | |
| 108 | | | | | | | | | | | | | | | | | |
| 109 | | Met | His | Met | Lys | Asn | Ile | Lys | Lys | Asn | Gln | Val | Met | Asn | Leu | Gly | Pro |
| 110 | | 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| 111 | | | | | | | | | | | | | | | | | |
| 112 | | Asn | Ser | Lys | Leu | Leu | Lys | Glu | Tyr | Lys | Ser | Gln | Leu | Ile | Glu | Leu | Asn |
| 113 | | | | | 20 | | | | | 25 | | | | | 30 | | |
| 114 | | | | | | | | | | | • | | | | | | |
| 115 | | Ile | Glu | Gln | Phe | Glu | Ala | Gly | Ile | Gly | Leu | Ile | Leu | Gly | Asp | Ala | Tyr |
| 116 | | | | 35 | | | | | 40 | | | | | 45 | | | |
| 117 | | | | | | | | | | | | | | | | | |
| 118 | | Ile | Arg | Ser | Arg | Asp | Glu | Gly | Lys | Thr | Tyr | Cys | Met | Gln | Phe | Glu | Trp |
| 119 | | | 50 | | • | - | | 55 | _ | | _ | _ | 60 | | | | _ |
| 120 | | | | | | | | | | | | | | | | | |
| 121 | | Lys | Asn | Lys | Ala | Tyr | Met | Asp | His | Val | Cys | Leu | Leu | Tyr | Asp | Gln | Trp |
| 122 | | 65 | | • | | • | 70 | - | | | • | 75 | | • | - | | 80 |
| 123 | | | | | | | | | | | | | | | | | |
| 124 | ŧ | Val | Leu | Ser | Pro | Pro | His | Lvs | Lvs | Glu | Arq | Val | Asn | His | Leu | Gly | Asn |
| 125 | | | | | | 85 | | -1- | | | 90 | | | | | 95 | |
| 126 | | | | | | | | | | | | | | | | | |
| 127 | | Leu | Val | Ile | Thr | Trp | Glv | Ala | Gln | Thr | Phe | Lvs | His | Gln | Ala | Phe | Asn |
| 128 | | | | | 100 | | 2 | | | 105 | | -2- | | | 110 | | |
| 129 | | | | | | | | | | | | | | | | | |
| 130 | | Lvs | Leu | Ala | Asn | Leu | Phe | Tle | Val | Asn | Asn | Lvs | Lvs | Thr | Ile | Pro | Asn |
| 131 | | -1- | | 115 | | | | | 120 | | | -1- | -1- | 125 | | | |
| 132 | | | | | | | | | | | | | | | | | |
| 133 | | Δsn | Leu | Val | Glu | Asn | Tvr | Leu | Thr | Pro | Met | Ser | Leu | Ala | Tvr | Trp | Phe |
| 134 | | | 130 | | | | -1- | 135 | | | | | 140 | | - 2 - | | |
| 135 | | | | | | | | | | | | | | | | | |
| 136 | | Met | Asp | Àsp | Glv | Glv | Lvs | Trp | Asp | Tvr | Asn | Lvs | Asn | Ser | Thr | Asn | Lvs |
| 137 | • | 145 | 1100 | | 017 | 0-1 | 150 | | | -1- | | 155 | | | | | 160 |
| 138 | | | | | | | 200 | | | | | | | | | | |
| 139 | | Ser | Tla | 17a] | T.011 | Δan | Thr | Gln | Ser | Dhe | Thr | Phe | Glu. | Glu | Va l | Glu | Tur |
| 140 | | DCI | 110 | Val | шси | 165 | 1111 | 0111 | 001 | 1110 | 170 | 1110 | 014 | Q_u | V41 | 175 | -1- |
| 141 | | | | | | 105 | | | | | 1,0 | | | | | 1,5 | |
| 142 | | T.011 | T/a l | Tare | Glv | T.All | λνα | Λen | Tare | Dhe | Gln | T.011 | λen | Cve | Tur | Val | Luc |
| 143 | | пси | Vai | цуз | 180 | БСи | ALG | ASII | шуз | 185 | 0111 | шси | ADII | Cys | 190 | | L y5 |
| 144 | | | | | 100 | | | | | 100 | | | | | 190 | | |
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| | | | | 195 | | | | | 200 | | | • | | 200 | | | |
| 147 | | T1~ | Dha | Па | 7 ~~ | T 0 | T1^ | T 1 | Dro | TT-1 22 | T.611 | T1. | Dro | ر م1ب | Mo+ | Mo+ | Тъг ~ |
| 148 | | тте | | TĂI. | ASII | ьeu | тте | - | PIO | TAL | пеп | TTE | | GTII | MEL | Met | TAT |
| 149 | | | 210 | | | | | 215 | | | | | 220 | | | | |
| 150 | | T | T | Dane | 7 | mb | т1. | 0 | G | C1 | mb~ | Dha | T 0 | T | | | |
| 151 | | _ | Leu | PIO | ASI | TIII | | ser | ser | GIU | THE | | பeu | пÄр | | | |
| 152 | | 225 | | | | | 230 | | | | | 235 | | | | | |

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|------------|---|------|--|--|--|--|--|--|--|--|--|--|--|
| 153 154 | (2) INFORMATION FOR SEQ ID NO:3: | | | | | | | | | | | | |
| 155 | (2) INFORMATION FOR SEQ ID NO:3: | | | | | | | | | | | | |
| 156 | (i) SEQUENCE CHARACTERISTICS: | | | | | | | | | | | | |
| 157 | (A) LENGTH: 722 base pairs | | | | | | | | | | | | |
| 158 | (B) TYPE: nucleic acid | | | | | | | | | | | | |
| 159 | (C) STRANDEDNESS: single | | | | | | | | | | | | |
| 160 | (D) TOPOLOGY: linear | | | | | | | | | | | | |
| 161 | | | | | | | | | | | | | |
| 162 | (ii) MOLECULE TYPE: DNA (genomic) | | | | | | | | | | | | |
| 163 | | | | | | | | | | | | | |
| 164 | | | | | | | | | | | | | |
| 165 | | | | | | | | | | | | | |
| 166 | (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3: | | | | | | | | | | | | |
| 167 | ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` | | | | | | | | | | | | |
| 168 | AAAAATAAAA TCATATGAAA AATATTAAAA AAAATCAAGT AATCAATCTC GGTCCTATTT | 60 | | | | | | | | | | | |
| 169 | CM122MM22MM 2222C22M1M 222MC2C22M M22MMC222MM 222MMC222MM 222MMC222MM | 100 | | | | | | | | | | | |
| 170 | CTAAATTATT AAAAGAATAT AAATCACAAT TAATTGAATT AAATATTGAA CAATTTGAAG | 120 | | | | | | | | | | | |
| 171 172 | CAGGTATTGG TTTAATTTTA GGAGATGCTT ATATTCGTAG TCGTGATGAA GGTAAAACTT | 180 | | | | | | | | | | | |
| 173 | CAGGIAITGG ITTAATTITA GGAGATGCTT ATATTCGTAG TCGTGATGAA GGTAAAACTT | 100 | | | | | | | | | | | |
| 174 | ATTGTATGCA ATTTGAGTGG AAAAATAAGG CATACATGGA TCATGTATGT TTATTATATG | 240 | | | | | | | | | | | |
| 175 | | | | | | | | | | | | | |
| 176 | ATCAATGGGT ATTATCACCT CCTCATAAAA AAGAAAGAGT TAATCATTTA GGTAATTTAG | 300 | | | | | | | | | | | |
| 177 | | | | | | | | | | | | | |
| 178 | TAATTACCTG GGGAGCTCAA ACTTTTAAAC ATCAAGCTTT TAATAAATTA GCTAACTTAT | 360 | | | | | | | | | | | |
| 179 | | | | | | | | | | | | | |
| 180 | TTATTGTAAA TAATAAAAAA CTTATTCCTA ATAATTTAGT TGAAAATTAT TTAACACCTA | 420 | | | | | | | | | | | |
| 181 | | | | | | | | | | | | | |
| 182 | TGAGTCTGGC ATATTGGTTT ATGGATGATG GAGGTAAATG GGATTATAAT AAAAATTCTC | 480 | | | | | | | | | | | |
| 183 | | · | | | | | | | | | | | |
| 184 185 | TTAATAAAAG TATTGTATTA AATACACAAA GTTTTACTTT TGAAGAAGTA GAATATTTAC | 540 | | | | | | | | | | | |
| 186 | TTAAAGGTTT AAGAAATAAA TTTCAATTAA ATTGTTATGT TAAAATTAAT AAAAATAAAC | 600 | | | | | | | | | | | |
| 187 | IIMMOOIII MOOMAIMM IIICANIIM AIIOIIMIOI IMMAIIMI AMAMIMMO | 000 | | | | | | | | | | | |
| 188 | CAATTATTTA TATTGATTCT ATGAGTTATC TGATTTTTTA TAATTTAATT | 660 | | | | | | | | | | | |
| 189 | | | | | | | | | | | | | |
| 190 | TAATTCCTCA AATGATGTAT AAACTGCCTA ATACTATTTC ATCCGAAACT TTTTTAAAAT | 720 | | | | | | | | | | | |
| 191 | | | | | | | | | | | | | |
| 192 | AA | 722 | | | | | | | | | | | |
| 193 | | | | | | | | | | | | | |
| 194 | (2) INFORMATION FOR SEQ ID NO:4: | | | | | | | | | | | | |
| 195 | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | | |
| 196 | (i) SEQUENCE CHARACTERISTICS: | | | | | | | | | | | | |
| 197 | (A) LENGTH: 235 amino acids | | | | | | | | | | | | |
| 198 199 | (B) TYPE: amino acid (D) TOPOLOGY: linear | | | | | | | | | | | | |
| 200 | (D) TOPOLOGI: IIIIeal | | | | | | | | | | | | |
| 200 | (ii) MOLECULE TYPE: peptide | | | | | | | | | | | | |
| 202 | (11) Danconn III. poporao | | | | | | | | | | | | |
| 203 | | | | | | | | | | | | | |
| 204 | | | | | | | | | | | | | |
| 205 | (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4: | | | | | | | | | | | | |
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| 206 207 | | Met | Lvs | Δsn | Ile | Lvs | Lvs | Δsn | Gln | Val | Met | Δsn | Len | Glv | Pro | Δsn | Ser |
| 208 | | 1 | - 175 | 11011 | | 5 | _, | 11011 | 0111 | · · · · | 10 | 71011 | | O _T | | 15 | 501 |
| 209 | | | | | | | | | | | | | | | | | |
| 210 | | Lys | Leu | Leu | Lys | Glu | Tyr | Lys | Ser | Gln | Leu | Ile | Glu | Leu | Asn | Ile | Glu |
| 211 | | | | | 20 | | | | | 25 | | | | | 30 | | |
| 212 | | * _ | | | _ | | _ | | | | | | | | | | |
| 213 | | Gln | Phe | | Ala | Gly | Ile | Gly | | Ile | Leu | Gly | Asp | | Tyr | Ile | Arg |
| 214 | | | | 35 | | | | | 40 | | | | | 45 | | | |
| 215 | | Com | 7. ~~~ | 7 ~~ | C1 | c1 | T | Прх | TT | Crra | Mot | ~1n | Dho | C1,, | m~~ | T | λαn |
| 216 217 | | ser | 50 | Asp | Glu | GTA | цуѕ | 55 | ıyı | Cys | Mec | GIII | 60 | GIU | пр | пуъ | ASII |
| 217 | | | 50 | | | | | 33 | | | | | 00 | | | | |
| 219 | | Lvs | Ala | Tvr | Met | Asp | His | Val | Cvs | Leu | Leu | Tvr | Asp | Gln | Trp | Val | Leu |
| 220 | | 65 | | -1- | | 1100 | 70 | | 0,2 | | | 75 | | | | | 80 |
| 221 | | | | | | | | | | | | | | | | | |
| 222 | • | Ser | Pro | Pro | His | Lys | Lys | Glu | Arg | Val | Asn | His | Leu | Gly | Asn | Leu | Val |
| 223 | | | | | | 85 | | | | | 90 | | | | | 95 | |
| 224 | | | | | | | | | | | | | | | | | |
| 225 | | Ile | Thr | \mathtt{Trp} | Gly | Ala | Gln | Thr | Phe | _ | His | Gln | Ala | Phe | Asn | Lys | Leu |
| 226 | | | | | 100 | | | | | 105 | | | | | 110 | | |
| 227 | | | _ | _ | _, | 7 | | _ | _ | _ | _ | | | | . | | |
| 228 | | Ата | Asn | | Phe | тте | vaı | Asn | | ьys | ьуs | ьeu | тте | | Asn | Asn | Leu |
| 229 230 | | | | 115 | | | | | 120 | | | | | 125 | | | |
| 231 | | ₩-1 | Glu | Δen | Tyr | T. - 11 | Thr | Pro | Met | Ser | T.e.11 | Δla | Ψълг | ሞተነገ | Phe | Met | Δsn |
| 232 | | Val | 130 | ASII | - 7 - | БСи | 1111 | 135 | ricc | DCI | БСи | ALG | 140 | 110 | 1110 | ricc | лор |
| 233 | | | -5,0 | | | | | | | | | | | • | | | |
| 234 | | Asp | Gly | Gly | Lys | Trp | Asp | Tyr | Asn | Lys | Asn | Ser | Leu | Asn | Lys | Ser | Ile |
| 235 | | 145 | • | • | • | - | 150 | • | | • | | 155 | | | • | | 160 |
| 236 | | | | | | | | | | | | | | | | | |
| 237 | | Val | Leu | Asn | Thr | Gln | Ser | Phe | Thr | Phe | Glu | Glu | Val | Cys | Tyr | Leu | Val |
| 238 | | | | | | 165 | | | | | 170 | | | | | 175 | |
| 239 | | | | | | | | | | _ | | | | | _ | | _ |
| 240 | | Lys | Gly | Leu | Arg | Asn | Lys | Phe | Gln | | Asn | Cys | Tyr | Val | _ | Ile | Asn |
| 241 | | | | | 180 | | | | | 185 | | | | | 190 | | |
| 242 243 | | Tara | Nan | Lvc | Pro | т10 | TIO | Т | т10 | λαn | Car | Mat | Cor | Фтт | Leu | Tla | Dhe |
| 244 | | цуъ | ASII | 195 | PIO | 116 | 116 | TYL | 200 | тэр | 561 | Mec | per | 205 | пец | 116 | FIIC |
| 245 | | | | 173 | | | | | 200 | | | | | 203 | | | |
| 246 | | Tvr | Asn | Ile | Ile | Lvs | Pro | Tyr | Leu | Ile | Pro | Gln | Met | Met | Tyr | Lys | Leu |
| 247 | | - | 210 | | | 4 | | 215 | | | | | 220 | | - | • | |
| 248 | | | | | | | | | | | | | | | • | | |
| 249 | | Pro | Asn | Thr | Ile | Ser | Ser | Glu | Thr | Phe | Leu | Lys | | | | | |
| 250 | | 225 | | | | | 230 | | | | | 235 | | | | | |
| 251 | | | | | | | | | | | | | | | | | |
| 252 | (2) | INFO | RMAT] | LON I | OR S | SEQ I | LD NO |):5: | | | | | | | | | |
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| 254 255 | | (1) | ~ | | CHANGTH: | | | | | | | | | | | | |
| 255 256 | | | | | PE: 1 | | | | **** | | | | | | | | |
| 257 | | | | | RANDI | | | | le | | | | | , | | | |
| 258 | | | | | POLO | | | | | | | | | | | | |
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SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/09/836,169

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SEQUENCE MISSING ITEM REPORT PATENT APPLICATION *US/09/836,169*

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< < THERE ARE NO ITEMS MISSING >>



SEQUENCE CORRECTION REPORT PATENT APPLICATION US/09/836,169

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